

**TANK SCHEDULING OPTIMIZATION FOR REPLICATED CHEMICAL IN A
SEMICONDUCTOR MANUFACTURING WET BENCH**

ABSTRACT

[0042] The present disclosure provides a system and method for identifying a tank containing a liquid from N number of tanks in a semiconductor manufacturing facility into which a batch of semiconductor products may be processed. An incoming batch of products to be processed in a predetermined number of tanks housing the liquid is received. A batch number associated with the batch is identified. A recipe index is determined using a relationship based on, for example, the modulus of N divided by the batch number, and a tank into which the batch is to be processed is determined using another relationship based at least in part on the recipe index and the predetermined number of tanks.